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tained are best appreciated by reference to their very excellent plates, where the relations spoken of can be readily seen. The resemblance of the peripheral sensory cells to the analogous organs in the vertebrates is very striking, and shows in a most forcible manner that organs which subserve similar purposes, even in widely separated classes of animals, are developed in very similar ways and into very similar forms. The fact of their epidermal and ectodermal origin is rich in its bearings upon an explanation of the development of the nervous system of the vertebrates, where as here the organs of percipient relation are of ectodermal origin, with the super-addition of a highly developed psychic ganglion, the brain, which, no matter what may be the argument to the contrary, can boast a no more aristocratic parentage than the rest of the nervous system.

RECENT BOOKS AND PAMPHLETS.—Annual Report of the Entomological Society of Ontario, for the year 1877. By W. Saunders, Rev. C. J. S. Bethune, B. Gott and J. Williams. Toronto, 1877. 8vo, pp. 59.

Bulletin of the U. S. National Museum, No. 10. Contributions to North American Ichthyology, based primarily on the collections of the U. S. National Museum. II. By D. S. Jordan, Washington, 1877. 8vo, pp. 120. 45 plates.

On the Superficial Geology of British Columbia. By G. M. Dawson. (From the Quarterly Journal of the Geological Society of London. Feb., 1878.) 8vo.

Notes on the Oceanic Copepoda. (Extracted from the Appendix to Capt. Nares' forthcoming Arctic Voyage.) 8vo, pp. 5. Ten Days Dredging at Oban. (Extracted from the Quarterly Journal of Conchology. Nov., 1877.) 8vo, pp. 4. On the new British Nudibranchiate-Mollusca. (From the Annals and Magazine of Natural History for Dec., 1877.) 8vo, pp. 3. Note on Telaginopsis (*Polycerias Hincksii*); and on the Circumpolar Distribution of certain Hydrozoa. (From the Annals and Magazine of Natural History for March, 1877.) 8vo, pp. 4. By Rev. A. M. Norman, M. A.

Bulletin of the University of California, No. 32. On the Destruction of the Ground Squirrel by the use of Bi-sulphid of Carbon. April, 1878. By E. W. Hilgard. 8vo, pp. 6.

Bulletin of the University of California, No. 31. The Rainfall in California, its Distribution, its Periodicity, and its Probabilities. Feb., 1878. By G. F. Becker, B.A., Ph.D. 8vo, pp. 10, with diagrams.

On the Genus *Actinometra* Müll., with a Morphological Account of a new Species (*A. polymorpha*) from the Philippine Islands. By P. Herbert Carpenter, B.A. (Extracted from the Linnean Society's Journal. Zoology, Vol. xiii.) 8vo, pp. 17.

Die Kometenform der Seesterne und der Generationswechsel der Echinodermen. Von Ernst Haeckel. (Abdruck aus der Zeitschrift für wissenschaftl. Zoologie, xxx, Bd. Suppl.) 8vo, pp. 25. With a Plate.

On some Points in the Anatomy of *Pentacrinus* and *Rhizocrinus*. By P. Herbert Carpenter, B.A. (From the Journal of Anatomy and Physiology, Vol. xii.) 8vo, pp. 18.

Die Bewegungen der fliegenden Fische durch die Luft. Von Karl Möbius. 8vo, pp. 40. With a Plate.

Notes on the Petrography of Quincy and Rockport. By M. E. Wadsworth. (From the Proceedings of the Boston Society of Natural History, Vol. xix. Feb., 1878.) 8vo, pp. 8.

Ueber die Schmuckfarben der Daphnoiden. Von August Weismann. (Separat-Abdruck aus Zeitschr. f. Wissenschaftl. Zoologie, xxx, Suppl. 1.) 8vo, pp. 43. With a Plate.

Description of new Genera and Species of Isopoda, from New England and adjacent regions. By Oscar Harger. Brief Contributions to Zoology from the Museum

of Yale College. (From the American Journal of Science and Arts, Vol. xv. May, 1878.) 8vo, pp. 7.

Manual of the Vertebrates of the Northern United States, including the district east of the Mississippi and north of North Carolina and Tennessee, exclusive of Marine Species. By David S. Jordan, Ph.D., M.D. Second Edition, revised and enlarged. 8vo, pp. 407. Chicago: Jansen, McClurg & Co. 1878.

Memoirs of the Geological Survey of India. Palæontologica Indica. Indian Tertiary and Post-Tertiary Vertebrata. Vol. i, 3. Ser. x, 3. Crania of Ruminants. By R. Lydekker, B.A., of the Geological Survey of India. 4to, pp. 84, with 'Pls. I-XXVIII. Calcutta, Government Press, 1878.

Die Kometenform der Seesterne und der Generationswechsel der Echinodermen. Von Ernst Haeckel. (Abdruck aus der Zeitschrift für Wissenschaftliche Zoologie. XXX. Band. Suppl.) Mit Tafel XX. 8vo, pp. 424-425. 1878. From the Author.

On *Argillornis longipennis*, from the Eocene Clay of Sheppey. By Prof. Owen, C. B., F.R.S., etc. (Abstracted from the Quar. Journ. of the Geolog. Society for February, 1878.) Vol. xxxiv. 8vo, pp. 124-130. With Pl. VI. From the author.

Some Microscopical Observations of the Phonograph record. By Persifor Frazer, Jr., A.M. Also, Some Tables for the Interconversion of Metric and English Units, by the same author. (Both read before the American Philosophical Society, April 5th, 1878.) 8vo, pp. 531-538, with a table. From the author.

On the "Geodes" of the Keokuk Formation, and the Genus *Biopalla*, with some species. By Samuel J. Wallace, of Keokuk. (From the Am. Journ. of Science and Arts. Vol. xv., May, 1878.) 8vo, pp. 5. From the author.

On the Intrusive Nature of the Triassic Trap Sheets of New Jersey. By I. C. Russell. (From the Am. Journ. of Science and Arts, xv. April, 1878.) 8vo, pp. 277-280. From the author.

On the Gigantic Extinct Armadillos and their Peculiarities, with a Restoration. By Jno. A. Ryder. (From the Popular Science Monthly, June, 1878.) 8vo, pp. 139-145. From the author.

A Catalogue of the Fishes of the Fresh Waters of North America. By David S. Jordan. (Extracted from the Bulletin of the U. S. Geological and Geographical Survey. Vol. iv, No. 2. Washington, Government Printing Office, May 3, 1878.) 8vo, pp. 407-442. From the author.

Notes on a Collection of Fishes from the Rio Grande, at Brownsville, Texas. By David S. Jordan. (From the U. S. Geological and Geographical Bulletin. Vol. iv, No. 2.) Washington, May 3, 1878. 8vo, pp. 397-406. From the author.

An Account of some Insects of Unusual Interest from the Tertiary Rocks of Colorado and Wyoming. By S. H. Scudder. (From the Bulletin of the U. S. Geological and Geographical Survey. Vol. iv, No. 2.) Washington, Government Printing Office, May 3, 1878. 8vo, pp. 519-543. From the author.

Letter from the Secretary of the Interior in response to a resolution of the House of Representatives, transmitting the Report of Professor Hayden upon Geological and Geographical Surveys. With Map. (Ex. Document, No. 81, 45th Congress, 2d Session.) 8vo, pp. 22. Washington, Government Printing Office. 1878.

On the Distribution of Fresh Water Fishes of the United States. By David S. Jordan, M.D., Butler University, Indianapolis, Indiana. (From the Annals of the N. Y. Academy of Sciences. Vol. i, No. 4.) Read Dec. 4, 1876. 8vo, pp. 92-120. From the author.

Tropical Nature, and other Essays. By Alfred R. Wallace. Macmillan & Co., London. 1878. 8vo, pp. 356. Price, \$3.50.

Mission Scientifique au Mexique et dans L'Amerique Centrale. Recherches Zoologiques publiées sous le direction de M. H. Milne Edwards. Troisième partie. Etudes sur les Reptiles et les Batraciens, par MM. Auguste Dumeril et Bocourt. 4to, pp. 281-360. (8 plates.) Quatrième Partie. Etudes sur les Poissons, par MM. Leon Vaillant et Bocourt. 4to, pp. 41-120. (5 plates.) Paris, Imprimerie Nationale. 1878.

Le Musée Géologique de Lausanne in 1877. Par E. Renevier, prof. (Bull. Soc. Vaud Sc. Nat. xv.) 8vo, pp. 267-272. Lausanne, 1878. From the author.

Sur la Géologie des Environs de Bex, par E. Renevier, professeur. (Ext. des Actes de la 60<sup>e</sup> Session de la Soc. Helv. des Sc. Nat. Bex. Août 1877.) 8vo, pp. 3. From the author.

Structure Geologique du Massif du Simplon apropos du Tunnel Projeté, par E. Renevier. (From the Bulletin de Société Vaudoise des Sciences Naturelles. Vol. xv, No. 79.) Lausanne, Librairie Rouge et Dubois, 1878. 8vo, pp. 281-304. (Plates 20-21.) From the author.

Sur quelques Batraciens de Chine, par M. H. E. Sauvage. (Ext. du Bull. de la Soc. Philomathique de Paris 7<sup>e</sup> série t I<sup>er</sup>, No. 3. 12 Mai, 1877.) 8vo, pp. 4. From the author.

Sur les écailles de ligne latérale chez Sciénoides, par M. H. E. Sauvage. (Ext. du Bull. de la Soc. Philomathique de Paris 7<sup>e</sup> série. Juillet, 1877.) With note sur les Sparus desfontainii, etc. Par le même. 8vo, pp. 12. From the author.

Remarques sur la classification et les affinités réciproques des Chéloniens, par M. Leon Vaillant. (Ext. du Bull. Soc. Philomathique de Paris, 7<sup>e</sup> série, t I<sup>er</sup>, No. 2. 10 Mars, 1877.) 8vo, pp. 5, planche 54. From the author.

A List of the Species of the Tribe Aphidini, Family Aphidæ, found in the United States, which have been heretofore named, with descriptions of some new species. By Cyrus Thomas, Ph.D. (Ext. Bull. No. 2, Ill. State Lab. of Nat. Hist.) Printed Dec. 13, 1877. 8vo, pp. 16. From the author.

Notes on the Natural History of Fort Macon, N. C., and vicinity. (No. 4.) By Dr. Elliott Coues and Dr. H. C. Yarrow. (Ext. Proc. Acad. Nat. Sci., Phila., 1878.) 8vo, pp. 21-28. From the authors.

The Electric Constitution of our Solar System. By Jacob Ennis. (From the Proceedings of the Academy of Natural Sciences, Phila., 1878.) 8vo, pp. 19. From the author.

On the identity of certain supposed species of Sigillaria with Sigillaria lepidodendrifolia Brogniart. By Herman L. Fairchild. (From the Annals of the New York Academy of Sciences. Vol. i, No. 5.) 8vo. pp. 129-133, with a plate. From the author.

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## GENERAL NOTES.

### BOTANY.

THE MYCOLOGICAL FLORA OF MINNESOTA.—Dr. A. E. Johnson contributes to the Bulletin of the Minnesota Academy of Natural Sciences, an essay of a hundred pages on the fungi of that State. He has collected and determined 559 species all new to the State, two of which are new to science, and the report is the result of the examination of more than ten thousand specimens. The essay is mainly an enumeration of the species, and must prove of much assistance to local botanists, and though we are unable to pass a critical judgment on the quality of the work, it evidently reflects credit on the Society and State from which it emanates.

LIGNEOUS FLORA OF IOWA.—In a page reprinted from the *Valley Naturalist*, Prof. J. E. Todd gives a list of the trees and woody shrubs and vines of South-western Iowa, a region varying in altitude from about 1000 to 1300 feet above the sea, the prevailing soil being that of the loess.

ON THE GROWTH OF COCCULUS INDICUS.—I have noticed that the termini of the branches on a plant of *Cocculus indicus*, in the Horticultural Building in Fairmount Park, were coiled to the left about objects that came within reach. These terminal coils, which